

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 8.00

Revision Date: April 27, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Acetonitrile

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Acetonitrile

Synonyms: methyl cyanide, ethyl nitrile

CAS#: 75-05-8

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid. Distinct ether odor.

Harmful if inhaled or absorbed through skin. Avoid breathing vapor. Avoid contact with skin and eyes. Slightly toxic by ingestion, inhalation, or skin absorption; irritant and lachrymator.

Class 1B flammable liquid, serious fire hazard.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-2

Exposure-2

Storage-2

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Break amyl nitrite pearl in a cloth and hold to nose for 15 seconds. Repeat 5 times. Remove to fresh air at once.

If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Administer inhalation first aid measures first. After administering pearls, rinse out mouth, give 1 to 2 cups of water or milk and induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Class 1B flammable liquid.

Flash Point: 42 °F (oc) UEL: 16.0% LEL: 3.0% Autoignition Temperature: 973 °F

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and

SCBA with full facepiece operated in positive pressure mode. Dangerous fire and explosive hazard; decomposes to toxic and flammable cyanides and NOx from reaction with water, steam, and acids.

NFPA CODE

H-2

F-3

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #7. Store with sulfides, polysulfides, sulfoxides, and nitriles. Store in a Flinn Chem-Saf bag and Flinn Saf-Stor can. Store in a cool, dry place. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid; distinct ether odor.

Solubility: Water soluble.

Formula: CH₃CN

Formula Weight: 41.05

Boiling Point: 81.1 °C

Melting Point: -45 °C

Specific Gravity: 0.784

Vapor Density: 1.42

Vapor Pressure: 100 mm at 27°C

SECTION 10 — STABILITY AND REACTIVITY

Contact with acids produces hydrogen cyanide gas. Avoid contact with acids, water, steam, oxidizers, and flame.

Shelf Life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, lachrymator, irritant

Chronic effects: N.A.

Target organs: CNS, liver, kidneys, blood, lungs

ORL-RAT LD₅₀: 2730 mg/kgIHL-RAT LC₅₀: 7551 ppm/8hSKN-RBT LD₅₀: 1250 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.

Flinn Suggested Disposal Method #18a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-835-2), RCRA code U003.

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**